



APPLICATION
FOR A
SOLID WASTE LANDFILL

ADMINISTRATIVE APPLICATION

DEP 7062 (9/91)



**Natural Resources and
Environmental Protection Cabinet**

COMMONWEALTH OF KENTUCKY
NATURAL RESOURCES AND ENVIRONMENTAL PROTECTION CABINET
DIVISION OF WASTE MANAGEMENT
18 REILLY ROAD
FRANKFORT, KENTUCKY 40601

NAURAL RESOURCES AND ENVIRONMENTAL PROTECTION CABINET
DEPARTMENT FOR ENVIRONMENTAL PROTECTION
DIVISION OF WASTE MANAGEMENT
SOLID WASTE BRANCH
18 REILLY ROAD
FRANKFORT, KENTUCKY 40601
TELEPHONE NUMBER (502) 564-6716

ADMINISTRATIVE APPLICATION FOR A SOLID WASTE LANDFILL

GENERAL INSRUCTIONS

1. **Use of this application-** This form is utilized to allow the Cabinet to review the potential effects the proposed or expanded facility may have on human health and the environment. The primary purpose of this application is to provide field data on the proposed site for review by the division to determine site suitability.
2. **Preparation Assistance-** Questions regarding this application form should be directed in writing to the Division of Waste Management, Solid Waste Branch, 18 Reilly Road, Frankfort, Kentucky 40601, or by calling (502) 564-6716.
3. **Submission-** Submit the original and three copies of the completed application to the Division of Waste Management at the address listed above. If an item does not appear to be applicable to your application, write "N/A" for not applicable.
4. **Fees-** Submit the following fee with the Administrative Application for the corresponding type of landfill:

<u>LANDFILL TYPE</u>	<u>FEE</u>
Contained	\$10,000
Residual	\$ 2,500
Construction/Demolition	\$ 5,000

Make check or money order payable to "Kentucky State Treasurer."

5. **Laws and regulations-** Applicants are expected to understand and comply with all laws and regulations applicable to the proposed project.

Administrative Application

TABLE OF CONTENTS

- A. General Information
- B. Ownership and Disclosure of Background Information
- C. Site Information
- D. Geologic and Hydrogeologic Information
- E. Soils Information
- F. Siting Restrictions and Design Report
- G. Permit Preparation Information
- H. Public Notice
- I. Certification

ADMINISTRATIVE APPLICATION ATTACHMENTS

NUMBER	DESCRIPTION	PAGE
1.	Copy of Deed or Lease	_____
2.	Fire Protection	_____
3.	Planning and Zoning	_____
4.	Applicant and Key Personnel	_____
5.	Existing Conditions Topographic Map	_____
6.	Deed Plot Scale Drawing	_____
7.	Report on Threatened and Endangered Species Management Plan	_____
8.	Report on Historically Significant Sites	_____
9.	Impact on Transportation Facilities	_____
10.	Permitted Areas; Volume and Life	_____
11.	Geologic Cross Sections	_____
12.	Coal Seams	_____
13.	Description of Mines	_____
14.	Core Log Data	_____
15.	Geologic Features and Rock Coring Locations	_____
16.	Hydrogeologic Characterization Report	_____
17.	Water Well and Spring Survey	_____
18.	Soil Type, Texture and Thickness	_____
19.	Soils Inventory	_____
20.	Soils Inventory Map	_____
21.	Siting Restrictions and Design Report	_____
22.	Variance Requests	_____
23.	Cross-Sections to Approximate Volume	_____
24.	Executive Summary	_____
25.	Public Notice	_____

**APPLICATION FOR A SOLID WASTE LANDFILL
ADMINISTRATIVE APPLICATION**

A. GENERAL INFORMATION

APPLICATION NO. _____

FEE SUBMITTED\$ _____ COUNTY _____ DATE _____

1. Applicant _____
Address _____
City _____ State _____ Zip Code _____
Phone No. (____) _____

2. Provide the date the Notice of Intent to apply was submitted.
_____.

3. Provide, as **Attachment 1**, a copy of the deed or option to the property and a copy of any lease or proposed lease showing a thirty (30) year right of re-entry following closure (401 KAR 47:180 Section 4(7)).

4. Will the facility or expansion of an existing facility receive fire protection from a district, city, or county?(401 KAR 47:180 Section 4(8))
_____Yes_____No

If "Yes", attach a statement, as **Attachment 2**, describing the protection to be provided.

5. Is the proposed facility located within boundaries for which a governmental planning agency has jurisdiction to act with regard to land use, air, or water quality planning?
_____Yes_____No

If yes, provide as **Attachment 3**, a statement that the facility or expansion of an existing facility complies with the planning and zoning requirements of the district, city, or county. (401 KAR 47:180 Section 4(5)).

B. OWNERSHIP AND DISCLOSURE OF BACKGROUND INFORMATION

1. Indicate by checking the appropriate blank, the legal organizational structure of the applicant: (401 KAR 47:180 Section 10 (1)).

☐ Proprietorship

☐ Partnership ☐ General ☐ Limited

☐ Corporation

☐ Joint Venture

☐ Governmental Agency

☐ Other. Describe: _____

2. If the owner is a corporation, is it registered with the Kentucky Secretary of State?

☐ Yes ☐ No

3. List the name, business address and social security numbers of the applicant and key personnel.

Key personnel includes: and officer, director, partner, manager, or shareholder of five percent(5%) or more of stock or financial interest in a corporation, partnership, or association or parent, subsidiary, or affiliate corporation and its officers, directors, or shareholders of five percent (5%) or more of stock or financial interest.

Provide this information and label as **Attachment 4**.

4. For the applicant and each individual listed in **Attachment 4**, provide a disclosure statement as required by KRS 224.40-330. The Cabinet has developed DEP Form No. 7087 for submittal of information to meet the statutory requirements. An original and three (3) copies of the completed disclosure statement forms must be provided under separate cover and accompany this application. The original and three (3) copies must be appropriately bound and clearly identified when submitted with this administrative application.

NOTE: DEP Form No. 7087 may be obtained by contacting the Division of Waste Management at the address specified on the “General Instructions” page of this application.

C. SITE INFORMATION

1. Provide, as **Attachment 5**, an existing conditions topographic map on an engineering drawing twenty-four (24) inches by thirty-six (36) inches with contour intervals of two (2) feet. This map must include the following information required by 401 KAR 47:180 Section 5(1), and the location of any historical properties or federally threatened species found by the survey required by 401 KAR 47:180 Section 4(3):

General

- Legend
- Bar scale
- Date of preparation
- North arrow
- Elevations referenced to USGS

Site Features

- 100 year floodplain
- Wind rose
- Property lines
- Borrow areas

- Zones of expected subsidence
- Waste limits
- Soil Borings and rock corings
- Injection Wells
- Groundwater withdrawal wells
- Existing structures
- Location of deep mines

Surface Waters

- Ephemeral streams
- Intermittent streams
- Perennial streams

Surrounding land use

- Residential
- Commercial
- Agricultural
- Recreational
- Industrial
- Institutional
- Different local zoning classification, if any

2. Provide, as **Attachment 6**, a deed plot drawing showing the current boundaries of all property for the facility and the ownership of these and adjacent properties (401 KAR 47:180 Section 5(1)(g)).
3. Provide, as **Attachment 7**, the narrative report on federally listed threatened and endangered species in the permit area.
4. Provide, as **Attachment 8**, the location of significant archaeological sites and properties listed on the National Register of Historic Places.
5. Complete **Attachment 9**, describing the potential impact of the proposed site operations on transportation facilities.

6. Complete **Attachment 10** describing areas, volume and life of the proposed facility.

D. GEOLOGIC AND HYDROGEOLOGIC INFORMATION

1. Provide the following information for the regional bedrock geologic structure as required in 401 KAR 47:180 Section 6:

Strike and dip of bedrock_____

Attitude of faults_____

Location of faults relative to the site_____

Has fault displacement occurred in holocene times? _____Yes_____No

Attitude of Folds_____

Location of fold relative to site_____

Joining trends_____

2. Provide the following information for the site specific geologic structure as required in 401 KAR 47:180 Section 6:

Strike and dip bedrock_____

Attitude of faults_____

Location of faults relative to site_____

Has fault displacement occurred in holocene times? _____Yes_____No

Attitude of folding_____

Location of fold relative to site_____

Joint attitudes_____

Joint spacing_____

3. Provide a brief description of the influence of fracture zones on the infiltration and movement of water and groundwater as required in 401 KAR 47:180 Section 6.

4. Provide, as **Attachment 11**, a minimum of two (2) geologic cross sections drawn with vertical exaggeration using published data, bedrock outcrops and rock core boring information. This drawing must adequately illustrate the geology of the site and include the seasonal high groundwater table and rock outcrops. (401 KAR 47:180 Section 6)
5. List on **Attachment 12**, any extractable coal seams or other minerals beneath the site as required by 401 KAR 47:180 Section 6.
6. List on **Attachment 13**, any active or inactive deep mines located within 1,500 feet of the waste boundaries as required by 401 KAAR 47:180 Section 6.
7. Provide, as **Attachment 14**, all rock core log data.
8. Provide, as **Attachment 15**, a map of geologic features and rock coring locations including area 1,500 feet beyond the waste boundary at a scale of one (1) inch equals four hundred (400) feet. Include the following information required in 401 KAR 47:180 Section 6:

- Geologic units
 - Rock outcrop occurrences
 - Surface depressions
 - Sinkholes
 - Springs
 - Injection wells
 - Water withdrawal wells
 - Surface contours
 - Location of rock corings
 - Legend to include symbols
 - Bar scale
 - Date
 - North arrow
9. Provide, **as Attachment 16**, a hydrogeologic characterization of the site. This characterization must include data, procedures, calculations and the following information as required by KAR 47:180 Section 6(2):

A description of the hydrogeologic characteristics of the:

- Uppermost aquifer
- Geologic units hydraulically connected to the uppermost aquifer

Field Test Data for:

- Hydraulic conductivity
- Storage coefficient
- Transmissivity
- Groundwater hydraulic gradient
- Groundwater hydraulic velocity

Based on:

- Multiple well aquifer tests
- Piezometer test evaluation
- Core Evaluation
- Tracer studies(Karst Areas)
- Another cabinet-approved method

Characterization of karst conditions for:

- Diffuse flow conditions
- Discrete flow conditions
- List on **Attachment 17**, all springs and upgradient wells

E. SOILS INFORMATION

1. List, on **Attachment 18**, the type, thickness, and range in thickness of unconsolidated materials as required by 401 KAR 47:180 Section 6. The applicant may submit a cross-section in lieu of completing Attachment 18.
2. Show, on **Attachment 19**, a soils inventory consisting of a description of the total volume and source of borrow material available, the total estimated volume and source of required daily cover, interim cover, long-term cover, final cover, and low permeability soils required by 401 KAR 48:060, 401 KAR 48:070, 401 KAR 48:080, 401 KAR 48:090, and 401 KAR 48:170.

Also, show the soils data as determined by the approved site investigation: location, depth, thickness, classification of soils for engineering purposes, particle size distribution, atterburg limits, optimum moisture, permeability, and recoverable volume in compacted cubic yards for each soil classification and permeability.

3. Provide, as **Attachment 20**, a soils inventory map at a scale of one (1) inch equals 400 feet, depicting the distribution of the soils that is keyed to a list of the soils by engineering classification. The approximate volume and depth of each type of soil shall be recorded on the map.

F. SITING RESTRICTIONS AND DESIGN REPORT

1. Provide, as **Attachment 21**, a report describing a typical design for the facility to meet the siting, design, and operating requirements in 401 KAR 47:030, 401 KAR 48:050, 401 KAR 48:060, 401 KAR 48:070, 401 KAR 48:090, 401 KAR 48:170 and Section 4(1) of 401 KAR 47:180. Include a description of engineering drawings to be developed by type and proposed scale.
2. Show, on **Attachment 5**, the waste boundaries and the following buffer zones:
 - 250 feet to intermittent or perennial stream
 - Critical angle of draw or potential zone of collapse
 - 250 to karst feature
 - 250 feet to the property line
 - 250 feet to an existing residence
 - 50 feet to a gas line, water line, or sewer line
 - 250 feet to an unplugged well except monitoring wells

Also show:

- Airport and Jetport locations
 - Faults displaced in holocene time
3. List all anticipated variance requests on **Attachment 22**.
 4. Attach four (4) equally-spaced cross sections as **Attachment 23** showing:

- the bottom elevation of waste
- the top of the seasonal high groundwater table
- Legend
- Bar scale
- Date of preparation
- 1 inch= 400 feet, map scale
- Approximate total design volume

G. PERMIT PREPARATION INFORMATION

1. Engineer_____
 - Kentucky Registration No. _____
 - Address _____
 - City _____ State _____ Zip Code _____
 - Company Name _____
 - Phone No. (____) _____
-
2. Geologist or Geotechnical Engineer _____
 - Address _____
 - City _____ State _____ Zip Code _____
 - Company Name _____
 - Phone No. (____) _____
-
3. Indicate the individual(s) authorized to make any necessary corrections to this application and to receive related correspondence from the Division:
 - Name(s) _____
 - Address _____
 - City _____ State _____ Zip Code _____
 - Company Affiliation _____
 - Phone No. (____) _____

H. PUBLIC NOTICE

-
1. Complete the executive summary labeled **Attachment 24**. Provide one(1) additional copy of the completed executive summary under separate cover to be transmitted to a local repository by the Cabinet when this administrative application is deemed complete.
 2. A public notice is required for a new site or a significant expansion to an existing site (see KRS 224.40-310). Complete the public notice form in Attachment 25A or 25B. Attachment 25A is for a new site. Attachment 25B is for a significant expansion to an existing site. Only those applicants notified by correspondence from the Cabinet may publish the notice.
-

I. CERTIFICATION

"I certify, under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for such violations."

Original Signature of Responsible Official

Date

Typed Name of Responsible Official

Title

Name of Applicant, i.e. Corporation or Unit of Government

Subscribed and sworn to before me by: _____

This the ____ day of _____, 19____

Notary Public Signature: _____

My Commission expires: _____

ATTACHMENT 9
IMPACT ON TRANSPORTATION FACILITIES

HIGHWAY NUMBER ROAD NAME, OR OTHER DESCRIPTION	NUMBER OF TRIPS PER DAY AFTER PERMIT ISSUANCE	AVERAGE GROSS WEIGHT OF COMMERCIAL VEHICLES	ESTIMATED IMPACT ON ROADWAY

ATTACHMENT 10
AREAS, VOLUME & LIFE

PHASE NUMBER	TOTAL AREA (ACRES)	AREAS DESIGNED FOR DISPOSAL (ACRES)	APPROXIMATE WASTE VOLUME (Cu. Yds.)	PLANNED LIFE (YEARS)

ATTACHMENT 12
COAL SEAMS

List any extractable coal seams or other minerals beneath the site:

USGS NAME	THICKNESS (INCHES)	ELEVATION

ATTACHMENT 13
DESCRIPTION OF ACTIVE AND INACTIVE MINES ON THE SITE

List any deep mines located within 1,500 feet of the waste boundaries:

MINE NAME	COAL SEAM NAME	ELEVATION ABOVE MSL	MINERAL TYPE

ATTACHMENT 18
SOIL TYPE, TEXTURE AND THICKNESS

List the type, texture, thickness, and range in thickness of unconsolidated materials as required by 401 KAR 47:180 Section 6(1)(a):

TYPE	TEXTURE	THICKNESS	RANGE IN THICKNESS

ATTACHMENT 19 B-Soils Inventory-Soil Borings

[illegible]

ATTACHMENT 19C-Soils Inventory-Soil Borings(continued)

[illegible]

ATTACHMENT 22 VARIANCE REQUESTS

Complete the following information concerning any anticipated variance requests. The alternate specification(s) replaces the regulation for which a variance is sought. The specifications must contain enough detail to demonstrate compliance with the Environmental Performance Standards.

REGULATION FOR WHICH VARIANCE IS SOUGHT: 401 KAR:	ENVIRONMENTAL PERFORMANCE STANDARD TO BE MET 401 KAR 47:030 SECTION:	ALTERNATE SPECIFICATION(S) IN LIEU OF REGULATION AND ABILITY OF APPLICANT TO MEET THE ENVIRONMENTAL PERFORMANCE STANDARD

ATTACHMENT 24

EXECUTIVE SUMMARY
401 KAR 47:180 Section 9

- a. Applicant_____
- Mailing Address_____
- City_____State_____Zip Code_____
- Phone Number(____)_____
- b. Provide directions for travel to the site_____
- _____
- _____
- _____
- _____
- _____
- c. Provide a description of any zoning requirements_____
- _____
- _____
- _____
- _____
- _____
- d. Provide a description of the purpose of the application_____
- _____
- _____
- _____
- _____
- _____

- e. Type of Landfill
____ Contained
____ Construction/Demolition Debris
____ Residual
____ Other _____
- f. Number of acres to be permitted _____
- g. Number of acres to be filled _____
- h. Anticipated operating life of site(years) _____
- i. Volume of fill(Cubic yards) _____
- j. Provide a description of all waste other than residential to be disposed at the site _____

- k. Provide as a part of the executive summary a copy of sources, characteristics, and amounts(Attachment 5 of the Notice of Intent to Apply.)
- l. Provide a description and the source of soils to be used for liners, cover material and other purposes _____

- m. Provide a brief description of the geology of the proposed site_____
- _____
- _____
- _____
- _____
- _____
- n. Provide a brief description of groundwater resources. Include aquifers, flow patterns, depth to groundwater and groundwater use._____
- _____
- _____
- _____
- _____
- _____
- o. Provide a description of surface water control measures_____
- _____
- _____
- _____
- _____
- _____
- p. Provide a description of the liner and cap design. Include a typical design detail
- _____
- _____
- _____
- _____
- _____
- q. Provide a description of leachate, management and methodology, including treatment and/or disposal methods

- r. Provide any additional information of concern to the solid waste management planning area or considered pertinent to public interest, the applicant or the Cabinet_____

2. Provide, as part of this executive summary, an area map twenty-four inches by thirty-six inches. Include the following information:
- a. Major highways and features
 - b. Site boundaries and waste limits
 - c. Adjacent land use and zoning
 - d. Water supply intakes
 - e. Federally listed endangered and threatened species or candidate species and their critical habitat
 - f. Direction of groundwater flow
 - g. Location of groundwater users
 - h. Properties boundaries and adjacent landowner's name
 - i. Floodplains
3. Provide graphics or engineering drawings. Include the following information:
- a. Proposed landfill site prior to development
 - b. Anticipated landfill units and phases
 - c. Environmental protection measures including liners, cap, groundwater monitoring, surface water monitoring, silt ponds, etc.
 - d. Geologic setting
 - e. Proposed site entrance

ATTACHMENT 25A

PUBLIC NOTICE

Pursuant to Application No. _____

THE NATURAL RESOURCES AND ENVIRONMENTAL PROTECTION CABINET, DIVISION OF WASTE MANAGEMENT HAS DETERMINED THE ADMINISTRATIVE PORTION OF PERMIT APPLICATION NO. _____ TO BE COMPLETE ON _____, 19____ (to be determined by the Cabinet). THE PERMIT APPLICANT PROPOSES TO CONSTRUCT AND OPERATE A _____ DISPOSAL FACILITY LOCATED _____. THE PROPOSED FACILITY MAY BE ACCESSED FROM _____ BY TRAVELLING _____.

THE TECHNICAL PHASE OF THE APPLICATION, IF APPROVED, WOULD ALLOW THE CONSTRUCTION AND OPERATION OF A LANDFILL TO ACCEPT THE FOLLOWING TYPES OF WASTES _____

FROM THE FOLLOWING SOURCES _____

THE NAME AND ADDRESS OF THE PERMIT APPLICANT IS:

CONTACT PERSON: _____

THE PERMIT APPLICATION IS BEING PROCESSED AT THE FOLLOWING LOCATION:

Solid Waste Branch
Division of Waste Management
18 Reilly Road
Frankfort, Kentucky 40601

INTERESTED PERSONS MAY OBTAIN FURTHER INFORMATION BY WRITING TO THE ADDRESS ABOVE OR BY CALLING (502) 564-6716.

WRITTEN COMMENTS, OBJECTIONS, OR REQUESTS FOR A PUBLIC HEARING MUST BE FILED WITH THE DIRECTOR, DIVISION OF WASTE MANAGEMENT, 18 REILLY ROAD, FRANKFORT, KENTUCKY 40601, WITHIN THIRTY (30) DAYS OF THE DATE OF THIS NOTICE. PLEASE REFERENCE APPLICATION NO. _____ ON ALL CORRESPONDENCE.

PUBLICATION OF THIS NOTICE IS PURSUANT TO KRS 224.40-310.

ATTACHMENT 25B

PUBLIC NOTICE
PURSUANT TO APPLICATION NO. _____

THE NATURAL RESOURCES AND ENVIRONMENTAL PROTECTION CABINET, DIVISION OF WASTE MANAGEMENT HAS DETERMINED THE ADMINISTRATIVE PORTION OF PERMIT APPLICATION NO. _____ TO BE COMPLETE ON _____, 19____ (to be determined by the Cabinet). THE PERMIT APPLICANT PROPOSES AN EXPANSION TO EXISTING PERMIT NO. _____ LOCATED IN _____ COUNTY, KENTUCKY. THE PROPOSED EXPANDED FACILITY MAY BE ACCESSED FROM _____ BY TRAVELLING _____

THE TECHNICAL PHASE OF THE APPLICATION, IF APPROVED, WOULD ALLOW THE CONSTRUCTION AND OPERATION OF THE EXPANDED LANDFILL TO ACCEPT THE FOLLOWING TYPES OF WASTES: _____ FROM THE FOLLOWING SOURCES

THE NAME AND ADDRESS OF THE PERMIT APPLICANT IS:

CONTACT PERSON: _____

THE PERMIT APPLICATION IS BEING PROCESSED AT THE FOLLOWING LOCATION:

Division of Waste Management
Solid Waste Branch
18 Reilly Road
Frankfort, Kentucky 40601

INTERESTED PERSONS MAY OBTAIN FURTHER INFORMATION BY WRITING TO THE ADDRESS ABOVE OR BY CALLING (502) 564-6716.

WRITTEN COMMENTS, OBJECTIONS, OR REQUESTS FOR A PUBLIC HEARING MUST BE FILED WITH THE DIRECTOR, DIVISION OF WASTE MANAGEMENT, 18 REILLY ROAD, FRANKFORT, KENTUCKY 40601, WITHIN THIRTY (30) DAYS OF THE DATE OF THIS NOTICE. PLEASE REFERENCE APPLICATION NO. _____ ON ALL CORRESPONDENCE.

PUBLICATION OF THIS NOTICE IS PURSUANT TO KRS 224.40-310.